TECHNICAL DATA

Fluke ISee™ Mobile Thermal Imager - TC03A/TC03A PRO



Key features

- 384 × 288 infrared resolution delivers clear, detailed thermal images
- SuperResolution up to 768 × 576 enhances image clarity
- NETD as sensitive as 45 mK enables precise detection of subtle temperature differences
- Wide temperature range covers applications from –20 °C to 550 °C
- Manual focus lens provides details of both near and distant targets

Product overview: Fluke ISee™ Mobile Thermal Imager - TC03A/TC03A PRO

The Fluke iSee™ mobile TC03A attaches directly to your Android smartphone or tablet, turning a device you already carry into a compact thermal camera with incredible image quality. Whether you are inspecting high-voltage switchgear from a safe distance or tracing heat buildup on a densely packed circuit board, this camera delivers the image clarity, temperature accuracy, and easy-to-use analysis tools to quickly find and report problems with confidence.

Work at the right distance

Manual adjustable focus keeps your target sharp from a distance of 0.25 m on a PCB to 20 m on a power line. One camera for every scenario.

See problems that lower resolution cameras miss

The 384x288 IR sensor with 1.14 mrad spatial resolution resolves tiny hotspots and subtle temperature differences, allowing you to spot a failing connection sooner, before it becomes a fault.

Catch faults before they cause downtime

Automatic 3-phase temperature-difference calculation highlights imbalances as soon as they appear. Audible, visual, and vibration alarms plus auto-snapshot let you know immediately, even when your eyes are elsewhere.

High-performance thermal imaging

- 384 × 288 infrared resolution delivers clear, detailed thermal images
- SuperResolution up to 768 × 576 enhances image clarity
- NETD as sensitive as 45 mK enables precise detection of subtle temperature differences
- Wide temperature range covers applications from –20 °C to 550 °C
- Spatial resolution (IFOV) of 1.14 mrad allows detection of spots as small as 0.01 m from 10 m away

Flexible inspection across distances

- Manual focus lens provides details of both near and distant targets
- 25° × 19° field of view enables efficient area coverage
- Flexible working distance starts from 0.25 m (10 inches)

Advanced analysis and diagnostics

- Automatic three-phase temperature delta calculation
- Over-temperature alarms with audible, visual, and vibration alerts
- Spot, line, and area measurement tools

Connected workflow with the Fluke iSee™ app

- Real-time image and video capture
- Integrated report generation and export capabilities
- Streamlined team communication with easy sharing

Compact and field-ready

- Lightweight design at only 55 g
- USB-C connection enables direct integration with mobile devices
- IP54 rating provides protection against dust and water
- Built for reliable daily use in industrial environments

Specifications: Fluke ISee™ Mobile Thermal Imager - TC03A/TC03A PRO

Performance	TC03A/9Hz	TC03A PRO/50Hz
IR Resolution	384 x 288	
SuperResolution	Yes, up to 768 x 576	
Pixel size	12 µm	

Temperature range	-20 °C to 150 °C, 100 °C to 550 °C	
Temperature accuracy	± 2% of rdg. or ± 2 °C, whichever is greater	
	(@ 23 °C ± 5 °C ambient temperature)	
Frame rate	9 Hz	50 Hz
Focal length	10.5 mm	
Focusing mode	Manual	
Nonuniformity Correction (NUC)	Manual / Auto	
Thermal sensitivity (NETD)	50 mK	45 mK
Spectral range	8 to 14 µm	
Field of View (FOV)	25° x 19°	
Spatial Resolution (IFOV)	1.14 mrad	
General	TC03A/9Hz	TC03A PRO/50Hz
USB Interface	Type C	
Operating system supported	Android and HarmonyOS	
Operating temperature	0°C to 40 °C	
Storage temperature	-30 °C to 60 °C	
Operating humidity	10% to 90% RH (non-condensing）	
Power consumption	700 mW (Typical)	
Ingress protection	IEC 60529: IP54 (with the protective cover for Type-C)	
Operating altitude	2000 m	
Storage altitude	12000 m	
Dimensions (L x W x H)	60 mm x 36 mm x 28 mm	
Weight	55 g	
Warranty	2 years	
EMC Environment	**International** IEC 61326-1: Electromagnetic environment for portable equipments CISPR 11: Group 1, Class A Group 1: Equipment intentionally generates and/or uses conductive-coupled RF energy, which is necessary for its internal operation. Class A: Equipment is suitable for use in all establishments other than domestic and those directly connected to a low-voltage power supply network that supplies buildings used for domestic purposes. There may be potential difficulties in ensuring electromagnetic compatibility in other environments due to conducted and radiated disturbances. Caution: This equipment is not intended for use in residential environments and may not provide adequate protection to radio reception in such environments. **Korea (KCC):** Class A Equipment (Industrial Broadcasting & Communication Equipment) Class A: Device meets requirements for industrial electromagnetic wave equipment and the seller or user should take notice of it. This equipment is intended for use in business environments and not to be used in homes. **United States (FCC)** 47 CFR Part 15 Subpart B. This product is considered an exempt device per clause 15.103.	

Ordering information



Fluke TC03A PRO/50 Hz

Fluke iSee™ Mobile Thermal Camera TC03A Pro/50 Hz for Android™

- Fluke-TC03A Pro/50 Hz Mobile Thermal Camera for Android™
- Soft carrying case
- User manual

Fluke TC03A/9 Hz

Fluke iSee™ Mobile Thermal Camera TC03A /9 Hz for Android™

- Fluke-TC03A/9 Hz Mobile Thermal Camera for Android™
- Soft carrying case
- User manual

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